## ABSTRACT OF THE DISCLOSURE

A logic device re-programmable without terminating operation. In the logic device, a logic circuit is

5    configured and maintained based on logic circuit configuration data for implementing a desired function. The logic device comprises: a memory holding the logic circuit configuration data for configuring and maintaining the logic circuit; and an address controller for writing,

10   in an unused area of the memory, logic circuit configuration data for configuring and maintaining one or more additional logic circuits without terminating operation of the logic device. It is an object of the present invention to provide a logic device in which data re-writing, such as addition

15   of functions and correction of problems, is available as required, without terminating operation of the device.